

Amendments to the Specification

Please replace the paragraph on page 4, lines 17-30, with the following amended paragraph:

Primers BamHIFOR (5' ccg ctt ggg cag agg atc cgc cgg gcc ttc atc gcc gag ga) (SEQ ID NO: 4) and NheIREV (5' tcg taa ggg atg gct agc cgc tgg gag agg cgg tgg gcc gac) (SEQ ID NO: 5) were used in a standard PCR reaction to amplify the region between the BamHI and NheI restriction sites in pREFY2pref (cloned Taq Δ 271/F272M/F667Y DNA polymerase). Primer BamHIFOR contains a BamHI restriction site which corresponds to the same unique site in pREFY2pref, and primer NheIREV contains a NheI restriction site which corresponds to the same unique site in pREFY2pref. In addition, primer NheIREV was designed to change the codon at position 410 from gag (encoding amino acid E, glutamic acid) to cgg (amino acid R, arginine). The PCR product was digested with the appropriate enzymes, and isolated by agarose gel electrophoresis. The large fragment resulting from the BamHI/NheI digestion of pREFY2pref was also gel purified, and ligated to the PCR fragment above. Following transformation into E. coli, plasmid DNA was isolated and subsequently sequenced to confirm the presence of the E410R substitution. The amino acid sequence for Taq Δ 271/F272M/F667Y/E410R DNA polymerase is shown at Figure 2.

Appl. No. 10/049,358
Amendment dated October 6, 2006
Reply to Office action of October 3, 2006

At the end of the written description, before the claims, please delete the previously submitted "Sequence Listing" and insert the revised "Sequence Listing" attached hereto.